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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/955,712	09/19/2001	Vladimir M. Shalaev	37000-0015	1002
5179 7	590 01/08/2003			
PEACOCK MYERS AND ADAMS P C			EXAMINER	
P O BOX 26927 ALBUQUERQUE, NM 871256927			LAVARIAS, ARNEL C	
			ART UNIT	PAPER NUMBER
			2872	
			DATE MAILED: 01/08/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/955,712	SHALAEV ET AL.					
Office Action Summary	Examiner	Art Unit					
	Arnel C. Lavarias	2872					
The MAILING DATE of this communication app Period for Reply	pears on the cov r sheet with t	th correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of the period of the period for reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply y within the statutory minimum of thirty (3l will apply and will expire SIX (6) MONTHS , cause the application to become ABANI	be timely filed O) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on	<u> </u>						
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 1-60 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
	6) Claim(s) is/are rejected.						
	7) Claim(s) is/are objected to. 8) Claim(s) <u>1-60</u> are subject to restriction and/or election requirement.						
Application Papers	cicolon requirement.						
9) The specification is objected to by the Examine	r.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) ☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the prior application from the International Bu * See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	•					
14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)	. ,						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Infor	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)					

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 2-9, drawn to the particulars of an optical enhancing material, classified in
 Class 428, subclass 539.5.
 - II. Claims 10-13, 25-29, 34-35, 49-58, drawn to methods and apparatuses comprising a medium comprising a semicontinuous metal film of randomly distributed metal particles and their clusters at approximately their percolation threshold and additionally a material proximate the semicontinuous metal film, classified in Class 356, subclass 302.
 - III. Claims 14-18, 21, 24, 36, 39, 42, 45, 48, drawn to an apparatus comprising a medium comprising a semicontinuous metal film of randomly distributed metal particles and their clusters at approximately their percolation threshold and a microcavity, classified in Class 372, subclass 39.
 - IV. Claims 32-33, drawn to methods and apparatuses comprising a medium comprising a semicontinuous metal film of randomly distributed metal particles and their clusters at approximately their percolation threshold and a logic component, classified in Class 356, subclass 390.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I-IV are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be

Art Unit: 2872

separately usable. In the instant case, all of the subcombinations have separate utility in a combination without the particulars of the other subcombinations. See MPEP § 806.05(d).

- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 4. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for the other Groups II-IV, restriction for examination purposes as indicated is proper.
- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 6. Claim 1 link(s) all of Inventions I-IV. Claim 27 links Inventions II and III. The restriction requirement among the linked inventions is subject to the nonallowance of the linking claim(s), Claims 1 and 27. Upon the allowance of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s) are advised that if any such claim(s) depending from or including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant

application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

- 7. Claims 19-20, 22-23, 30-31, 37-38, 40-41, 43-44, 46-47, 59-60 will be examined along with the claims drawn to the elected invention.
- 8. A telephone call was made to Jeffrey D. Myers (505-998-1502) on 1/03/03 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

- 9. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnel C. Lavarias whose telephone number is 703-305-4007. The examiner can normally be reached on M-F 8:30 AM 5 PM.

The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1782.

Arnel C. Lavarias January 3, 2003

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